

**United States Environmental Protection Agency
EPA New England
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July 16, 2004

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Commissioner of Public Works and Utilities, City of Pittsfield
Public Information Repositories

RE: June 2004 Monthly Report
1.5 Mile Reach Removal Action
GE-Pittsfield/Housatonic River Site

Enclosed please find the June 2004 Monthly Report for the 1.5 Mile Reach Removal Action. In accordance with the Consent Decree for the GE-Pittsfield/Housatonic River Site, the United States Environmental Protection Agency (EPA) is performing the 1.5 Mile Reach Removal Action, with General Electric funding a portion of the project through a cost sharing formula.

The EPA has entered into an agreement with the United States Army Corps of Engineers (USACE) to assist in the design and construction of the Removal Action. The USACE subsequently awarded a design-construct contract to Weston Solutions, Inc. (Weston). Weston, with several subcontractors, will be performing the design and construction activities for the 1.5 Mile Reach Removal Action.

If you have any questions, please contact me at (413) 236-0969.
Sincerely,

Dean Tagliaferro
1.5 Mile Reach Removal Action Project Manager

1. Overview

During June 2004, the Environmental Protection Agency (EPA), the United States Army Corps of Engineers (USACE), the USACE's contractor, Weston Solutions, Inc., and Weston's subcontractors continued remediation activities on the 1.5 Mile Reach Removal Action. The primary work included excavation and riverbed power washing activities in Cells 16 and 17. Backfilling activities were initiated in Cells 16 and 17. In addition, transfer of TSCA materials from the stockpile management areas to the GE On Plant Consolidation Areas (OPCAs) was performed. Also, transfer of non-TSCA and NAPL-impacted materials from the stockpile management areas to approved off-site facilities was performed.

2. Chronological description of tasks performed

Refer to Figure 1 for an orientation of the excavation cells and their respective locations.

By the end of May 2004, site preparation activities continued in the second part of Phase 2. Once the TSCA areas were delineated in Cell 16E, activities associated with the construction of a load out area on the riverbank of Cell 16E were initiated. During the first week in June, construction of a load out area on the riverbank of Cell 16E was completed. The non-TSCA riverbank material was excavated and transported to the Area 64B stockpile management area. (See Table 1 for quantities of material generated in the month of June 2004 and Table 2 for quantities of material generated to date). A layer of common fill was placed and compacted on top of the newly created load out pad to ensure stability and a clean work area.

Once activities associated with the installation of the anchors for the pipe restraint system were completed on the east side of the river channel, the 54-inch pipe was relocated from the east side of the river to the west side. All activities associated with the installation and testing of the self-drilling anchors for the 54-inch pipe restriction system were completed. The 54-inch pipe was then relocated back to the east side of the river channel and was tied off to the newly installed anchors. The drilling equipment was demobilized and sent offsite. Final efforts associated with connecting of the two additional 1,350-foot sections of 54-inch pipe as part of the gravity bypass system extension were completed. A steel plate energy dissipater was built at the 54-inch pipe outfall located one hundred feet upstream of the Dawes Avenue Bridge to prevent river bottom erosion and bin blocks were placed along the toe of the riverbanks to prevent riverbank erosion.

Activities associated with the installation of a 12-inch pump necessary for controlling the water from the storm water outfalls in Cells 14 and 15 and an 8-inch force main along with a 6-inch pump for the dewatering activities in Cells 16 and 17 were completed. Also, a temporary sand bag dam was built on the upstream end of Cell 16 to control water coming into Cell 16 from Cells 14 and 15.

The installation of the security fencing along the top of the riverbanks in Cells 16 and 17 continued.

The Spring 2004 tree and shrub riverbank restoration planting in the first 600ft of Phase 2 continued. Trees and shrubs were planted on the entire east and west riverbanks of Cells 14 and 15 with the exception of areas where construction equipment was in the way of the designated planting locations.

Restoration activities on Parcel I8-23-6 were completed with the exception of final paving in the area of the storm drain. Final paving will be completed in the fall 2004. Seed was installed around the newly planted arborvitae trees.

Also, during the first week in June, restoration activities on Parcels I8-10-5 and I8-10-4 were initiated. The restoration work began on Parcel I8-10-5 with the removal of the existing asphalt. The parking lot was then re-graded with a gravel base course. The fill was compacted in place, and new asphalt was installed including a 2-inch binder course and a 2-inch top coat. Once the paving was completed the activities associated with the installation of the wood guard rail at the top of the riverbank on Parcel I8-10-5 were initiated.

Surveying activities continued in the second part of Phase 2 including the delineation of the excavation limit down to the Dawes Avenue Bridge as well as the delineation of the TSCA and non-TSCA excavation limits in the active removal area.

During the second week in June, Cell 16W and 17W riverbank and riverbed excavation activities were initiated. The excavated material from Cells 16W and 17W was placed into a roll off box located in the river channel in Cell 16W. The material was then loaded into dump trucks by a long stick excavator located on the load out area on the riverbank of Cell 16E and hauled to the appropriate stockpile management area. The non-TSCA riverbank material pre-characterized for offsite disposal was excavated and transported to Area 64D; the non-TSCA riverbed material uncharacterized for offsite disposal was transported to Area 64B; the riverbed cobble material was transported to Area 64A; the TSCA material was transported to Building 63 stockpile management area. A substantial quantity of NAPL-impacted material was encountered during the riverbed excavation in both Cell 16W and 17W. This material was excavated and transported to the Building 68 stockpile management area. Due to the large quantity of NAPL-impacted material, the Building 68 stockpile management area was filled to capacity. Therefore, the remaining NAPL-impacted material was transported to Building 65 stockpile management area. The NAPL-impacted material extended into the riverbank of both Cell 16W and 17W. As a result, riverbank excavation beyond the limit of design excavation depths was necessary to remove the NAPL-impacted material. Based on visual observations, all of the NAPL-impacted riverbank soil was successfully removed from this area. All of the water and the free flowing NAPL from the excavation areas were diverted to the water treatment system.

Bedrock was encountered in the entire river bottom of Cell 16W and 17W. In most areas, there were less than 2-feet of sediment above the bedrock. Most of the bedrock within the riverbed was stained with NAPL. The high pressure power washing of bedrock to remove any loose sediment and NAPL staining was initiated. High pressure power washing of bedrock was supplemented with a vacuum truck to remove any residual sediment and NAPL from the bedrock. All water generated during the power washing was diverted to the water treatment system. All the residual sediment material was collected into roll off boxes located in the riverbed and subsequently transferred to the water treatment system modutank.

Also, excavation activities of TSCA and non-TSCA material continued on the riverbank of Cell 16E adjacent to the load out area. The TSCA material was excavated and transported to the Building 63 stockpile management area and the non-TSCA material was transported to the Area 64B stockpile management area. NAPL-impacted material was also encountered at the toe of the riverbank in Cell 16E. This material was excavated and transported to the Building 65 stockpile management area.

The construction of an access ramp on the riverbank of the downstream end of Cell 17W was completed.

The restoration activities on Parcels I8-10-5 and I8-10-4 continued. A section of the existing asphalt parking lot was removed on Parcel I8-10-4. A gravel base course was placed, graded, and compacted, and a new asphalt binder course and top coat were installed. Also, asphalt curb was installed around the perimeter of the parking lot on Parcel I8-10-4 and on the property boundary between Parcels I8-10-4 and I8-10-5. The installation of the wood guard rail at the top of the riverbank on Parcel I8-10-5 was completed and the installation of the wood guard rail at the top of the riverbank and Parcel I8-10-4 was initiated. Permanent fence was installed on the river channel side of the guard rail on Parcel I8-10-5.

Minor modifications were made to the drain outfall located on the Parcel I8-10-4 parking lot to better facilitate the surface water runoff to the opening established in the anchored sheetpile retaining wall.

The installation of the security fencing along the top of the riverbanks in Cells 16 and 17 continued.

Other activities during the second week of June included the installation of sound proofing on the dewatering pumps for Cells 16 and 17. The application of herbicides to control the invasive plants in Phase I and the Transition Phase was initiated.

During the third week of June, the excavation and bedrock power washing activities in Cell 16W were completed and excavation and bedrock power washing activities in Cell 17W continued. The non-TSCA riverbank material pre-characterized for offsite disposal was excavated and transported to Area 64D; the non-TSCA riverbed material uncharacterized for offsite disposal was transported to Area 64C; the riverbed cobble material was transported to Area 64E; the TSCA material was transported to Building 63 stockpile management area. Additional NAPL-impacted material was encountered during the riverbed excavation in both Cells 16W and 17W. In addition to the standard excavation equipment, a small track excavator was used to access and remove the NAPL-impacted material from the areas of the river bottom where the crevasses and depressions in weathered bedrock were numerous. All the NAPL-impacted material encountered in this area was excavated and transported to the Building 65 stockpile management area. In areas of the riverbed in Cell 16W where NAPL-impacted material was removed and where fractures in the underlying bedrock were encountered, the bedrock was encapsulated with a concrete mixture. All of the water and the free flowing NAPL from the excavation areas were diverted to the water treatment system.

The restoration activities on Parcels I8-10-5 and I8-10-4 continued. Installation of the wood guard rail at the top of the riverbank and Parcel I8-10-4 was completed. Installation of a six-inch layer of topsoil was completed in the areas between the asphalt curb and the wood guard rail on Parcel I8-10-4. Once the topsoil was placed, the planting of the 4-5 foot Arborvitae hedge was completed around the parameter of the parking lot on Parcel I8-10-4. Also, a permanent fence was installed on the river channel side of the guard rail on Parcel I8-10-4 and on the property boundary line between Parcels I8-10-4 and I8-10-5.

The installation of the security fencing along the top of the riverbanks in Cells 16 and 17 continued.

Other activities during the third week of June included the installation of the frac tank in the staging area off Deming Street. The tank was installed as part of the water treatment system. The water and the free flowing NAPL from the excavation areas will be pumped into the frac tank first, then to the water treatment system.

During the fourth week in June, the riverbed and riverbank excavation activities continued in Cell 17W. The non-TSCA riverbank material pre-characterized for offsite disposal was excavated and transported to Area 64D; the non-TSCA riverbed material uncharacterized for offsite disposal was transported to Area 64C; the riverbed cobble material was transported to Area 64E. Additional NAPL-impacted material was encountered during the riverbed excavation in both Cells 16W and 17W. The small track excavator was continuously used to access and remove the NAPL-impacted material from the areas of the river bottom where the weathered bedrock contained crevasses and depressions.

Most of the depressions in the bedrock were two to three feet below the original sediment grade. In one forty by ten foot area, due to the presence of NAPL-impacted material, the excavation depth was extended to eighteen feet below grade, where bedrock was encountered. There appeared to be a remnant of the timber dam in this area. All the NAPL-impacted material was excavated and transported to the Building 65 stockpile management area. The high pressure power washing and the vacuuming of bedrock to remove any visible sediment and NAPL staining continued. All of the water and the free flowing NAPL from the excavation areas and the water generated during the power washing were diverted to the water treatment system.

The area of the riverbed where the NAPL-impacted material extended to eighteen feet below grade was encapsulated with a concrete mixture in an attempt to prevent any residual NAPL from leaching out of the bedrock and into the excavated/clean river bottom. However, it was observed that NAPL was still seeping out of the bedrock fractures and through the concrete mixture. Therefore, a NAPL interceptor system was designed to recover and or contain NAPL seeping out of the bedrock. The NAPL interceptor/containment system design consisted of the following. Approximately three-foot layer of $\frac{3}{4}$ inch gravel was to be installed in the bottom of the excavation hole. A 2-inch diameter perforated pipe will be installed within the gravel layer to collect any remaining NAPL. Attached to the perforated pipe will be a tee fitting allowing for the connection of a 2-inch diameter non-perforated HDPE pipe running up the bank and a 6-inch diameter standpipe that would reach an elevation above the designed finished grade at the toe of slope. The 2-inch diameter non-perforated HDPE pipe would run up the riverbank and daylight out of the restored bank above the top of riprap elevation. The 2-inch diameter non-perforated

HDPE pipe would be cased in a 4-inch diameter HDPE pipe to protect the 2-inch diameter non-perforated HDPE pipe during backfill operations. A fitting would be installed on the end of the 2-inch diameter non-perforated HDPE pipe to allow for the connection of a pump to recover any NAPL that seeps into the recovery piping in the river bottom. The 6-inch diameter standpipe located at the toe of slope would allow for a pump to be dropped directly into the recovery system piping for NAPL recovery as well. Non woven geotextile will be installed over the ¾-inch gravel. Grout will be installed on the geotextile to contain any NAPL that collects in the gravel. Common fill, filter material and an eighteen inch layer of 12-inch riprap will be placed on top of the grout to achieve final grade.

Also, during the fourth week of June, the survey contractor completed the final excavating verification surveys in Cell 16W and backfilling activities were initiated. Absorption pads, filter fabric and a sacrificial layer of common fill were placed along the riverbed in Cell 16W to create a barrier between the Cell 16W and 16E interface. This barrier was created to prevent any cross contamination between the already excavated/clean Cell 16W riverbed from the contaminated Cell 16E riverbed prior to any backfilling activities. Due to the presence of bedrock within the entire riverbed of Cells 16 and 17 excavation depths varied. Therefore, various backfill configurations were developed to meet the design requirements. In the low lying areas and depressions in bedrock 12-inch riprap will be placed to bring the elevation up to grade. Areas of the riverbed where the excavation depth was greater than 3 feet will be backfilled with a layer of common fill, filter material then 12-inch riprap. Areas of the riverbed where the excavation depth was less than 2.5 feet will be backfilled with a layer of filter material then 12-inch riprap. Areas of the riverbed where bedrock was encountered at very shallow depths will be backfilled with common fill or will be left with the bedrock exposed. The riverbank will be backfilled with common fill or structural fill, a six inch layer of filter material and an 18-inch layer of 12-inch riprap up to an elevation ranging between 971 feet and 972 feet. The riverbank above those elevations will be backfilled with common fill and a 6-inch layer of top soil.

Backfilling of Cell 16W was initiated in accordance with the backfill configurations described above.

Spring 2004 tree and shrub riverbank restoration planting in the first 600ft of Phase 2 was completed. Areas of the riverbank in Cells 14 and 15 where the construction equipment was in the way of the designated planting locations were cleared and the restoration planting was finalized.

Other activities during the fourth week in June included continuing the installation of the roof over the wood façade on the anchored sheetpile retaining wall. Also, the installation of the security fencing along the top of the riverbanks in Cells 16 and 17 continued. A layer of additional 12-inch riprap was installed on the upper riverbank of Cell 14W to improve the stability and the appearance of the final restoration.

The application of herbicides to control invasive plants in Phase I and the Transition Phase was completed.

During the last week of June, riverbed and riverbank backfilling activities continued in Cell 16W. However, a small amount of NAPL was observed seeping out of the bedrock fractures in

the river bottom in Cell 16W. Any visible NAPL was cleaned up using the vacuum truck and the bedrock was encapsulated with a grout mixture. Backfilling activities continued in Cell 16W after the grout was installed.

The sediment excavation activities and bedrock power washing activities in Cell 17W were completed. All excavated material was transported to the appropriate stockpile management area. Activities associated with the installation of the NAPL interceptor system were completed. The survey contractor completed the final excavation survey in the upstream end of Cell 17W and backfilling activities were initiated in upstream end of riverbed and riverbanks in Cell 17W.

Other activities during the last week in June included repairs to the security fencing along Parcel I8-24-1 and relocation of the fence located at the top of the riverbank on Parcel I8-23-6. Also, a wing fence was installed along the top of the return section of the anchored sheetpile retaining wall on Parcel I8-10-4 to prevent access to the anchored wall façade. In addition, a temporary security fence was installed along the backyards of properties adjacent to Caledonia Street.

During the month of June, the water treatment system treated water from Cells 16 and 17. Sampling of the water treatment system for parameters included in the NPDES exclusion permit was performed on June 10, 2004. Due to the presence of NAPL in Cells 16 and 17, the analytical parameters for the water treatment system sampling were expanded to include volatiles and semi-volatiles. Air monitoring for particulate matter (PM10 sampling) and surface water turbidity monitoring were performed on a daily basis during the month of June. Surface water sampling for total suspended solids (TSS) and PCBs was performed on June 03, 2004 and June 16, 2004. The monthly PCB air-monitoring event was performed on June 10, 2004. Four eight-point composite off-site disposal characterization samples were collected on June 03, 2004, June 16, 2004, and June 17, 2004 from the previously uncharacterized soils and sediments excavated from Cells 16 and 17 (currently stockpiled in Area 64B south, Area 64B north, and Area 64C north). One NAPL-impacted sediment sample was collected in Cell 16W on June 08, 2004 and two NAPL-impacted sediment samples were collected in Cell 17W, one sample was collected on June 17, 2004 and one on June 23, 2004. Three eight-point composite off-site disposal characterization samples were collected from NAPL-impacted material (currently stockpiled in Building 68) on June 15, 2004. In addition, five discrete off-site disposal characterization samples were collected from the NAPL-impacted material in Building 68 on June 24, 2004 for ignitability analysis only. Due to the large amounts of NAPL-impacted material encountered during the excavation of Cell 16W and 17W, an air sample was collected in the Building 65 stockpile management area. The sample was analyzed for SVOCs.

In April 2004, in-situ disposal characterization sampling of riverbanks from the rest of Phase 2 was completed. Fifteen eight-point composite samples were collected and analyzed for PCBs, full suite TCLP, and physical characteristics for future offsite disposal. The in-situ data revealed four areas on the riverbanks which yielded higher total PCB results than expected based on historical data. Two of the areas on the downstream end of the rest of Phase 2 were re-evaluated and additional PCB sampling was completed. Eleven additional samples were collected (one 2-point composite and 10 discrete samples) for PCB analysis only.

The transfer of TSCA materials from the Building 63 stockpile management area to the Building 71 OPCA was performed on June 03, 2004 and June 22, 2004. (See Table 3 for a summary of

material transported to the OPCAs during the month of June 2004 and Table 4 for a summary of material transported to the OPCAs for the project through June 2004).

Also, Cell 16 and 17 pre-characterized non-TSCA riverbank materials from Area 64D and non-TSCA post excavation characterized riverbank materials from Area 64B south were transported to the Waste Management of New Hampshire-TREE, Rochester, NH from June 21, 2004 to June 30, 2004. (See Table 5 for a summary of material transported to the Waste Management of New Hampshire-TREE, Rochester, NH during the month of June 2004).

In addition, the water treatment system modutank NAPL-impacted materials were transported from Building 68 stockpile management area to CWM Chemical Services, Model City, N.Y. from June 03, 2004 to June 08, 2004. (See Table 6 for a summary of material transported to the CWM Chemical Services, Model City, N.Y. during the month of June 2004).

Stockpile management area activities continued throughout the month of June. Daily inspections, operation, and maintenance activities were performed within Buildings 63, 65, Area 64 (the outside stockpile area) and Building 68. Cleaning of the storm drain covers and replacement of fabric and hay bails around the storm drains within stockpile management areas on GE property was completed. Dust control procedures continued for access roads, parking areas, and material storage areas.

Traffic control was conducted on Lyman Street, High Street, Deming Street and Elm Street during the month of June. Temporary road barriers were placed along the High Street and Deming Street to assist with the traffic control.

3. Sampling/test results received

Table 7 contains a summary of the PCB samples collected for the water treatment system sampling program on June 10, 2004, the non-PCB data associated with the water treatment system is presented in Table 7a. The results of the daily particulate air monitoring program are summarized in Table 8. Table 9 is a summary of daily turbidity monitoring results. Results for PCB and TSS samples and water column monitoring data collected on May 20, 2004, June 03, 2004 and June 16, 2004 are presented in Table 10. Analytical results for the PCB air sampling conducted on June 10, 2004 are provided in Table 11. Analytical results for post excavation characterization samples collected on June 03, 2004, June 16, 2004 and June 17, 2004 from the Cells 16 and 17, (Area 64B south, Area 64B north and Area 64C north soils and sediment stockpiles) are presented in Table 12. Table 13 presents data associated with NAPL-impacted sediment collected in Cell 16W on June 08, 2004, the sample results for the NAPL-impacted sediment collected in Cell 17W on June 17, 2004 and June 23, 2004 are not yet available. Post-excavation characterization sample results for NAPL-impacted material (Building 68) collected on June 15, 2004 and June 24, 2004 are summarized in Table 14. Results associated with the air sample collected in Building 65 stockpile management area are not yet available.

4. Diagrams associated with the tasks performed

Figure 1 is a map of Phase 1, the Transition Phase and Phase 2 and includes the layout of all excavation cells, temporary dam, water monitoring locations, air sampling locations, access road locations, excavation load out locations, staging area locations, fence line location, the water treatment system pad location, and the utility trench location.

5. Reports received and prepared

Vibration monitoring activities were not performed during the month of June.

6. Photo documentation of activities performed

See attached photos.

7. Brief description of work to be performed in July 2004

- Continue the excavation and backfill activities in Cells 16 and 17.
- Continue stockpile management activities at Buildings 63, 65, 68 and Area 64 (outside contaminated material stockpile area).
- Continue transfer the non-TSCA materials from the stockpile management areas to approved off-site facilities.
- Continue to transfer TSCA and non-TSCA cobble material to the OPCAs.
- Continue daily air and turbidity monitoring.
- Continue PCB air sampling (once a month), water column sampling (twice a month), water treatment system sampling (once a month) and backfill material sampling (as needed).

8. Attachments to this report

Table 1. Quantity of Bank and Sediment Material Excavated during the Month of June

Table 2. Quantity of Bank and Sediment Material Excavated to Date

Table 3. Quantity of Material Transferred to OPCAs during the Month of June

Table 4. Quantity of Material Transferred to OPCAs to Date

Table 5. Quantity of non-TSCA Material Transferred to Waste Management of New Hampshire TREE in Rochester, NH during the Month of June

Table 6. Quantity of NAPL-Impacted Material Transferred to CWM Chemical Services, Model City, NY during the Month of June

Table 7. NPDES PCB Sampling Results for Water Treatment System

Table 7a. NPDES non-PCB Sampling Results for Water Treatment System

Table 8. Daily Air Monitoring Results

Table 9. Daily Water Column Turbidity Monitoring Results

Table 10. Summary of Turbidity, PCB, and TSS Water Column Monitoring Results

Table 11. PCB Air Sampling Results

Table 12. Post Excavation Soil/Sediment Characterization Analytical Results

Table 13. NAPL-Impacted Sediment from Cell 16W Analytical Results

Table 14. Cell 16/17 NAPL-Impacted Material Characterization Analytical Results

Figure 1- 1.5 Mile Removal Action Site Map

Photodocumentation

**Table 1 - Quantity of Bank and Sediment Material Generated During the Month of June
June 2004 Monthly Report**

**GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action
Pittsfield, MA**

(Results are reported in cubic yards)

		Approximate Quantity of Excavated Bank and Sediment Material		
Date	Location	non-TSCA	TSCA	NAPL impacted
Bank Soil and Sediment				
6/1/2004	Cell 16E	30	0	0
6/4/2004	Cell 16W	170	0	0
6/7/2004	Cell 16W	300	0	0
6/8/2004	Cell 16W	150	0	200
6/9/2004	Cell 16W	0	0	450
6/10/2004	Cell 16E, 16W&17W	0	20	280
6/11/2004	Cell 16W&17W	110	60	70
6/12/2004	Cell 16E	60	90	20
6/14/2004	Cell 16W&17W	90	210	50
6/15/2004	Cell 17W	340	50	80
6/16/2004	Cell 17W	470	0	50
6/17/2004	Cell 17W	260	0	150
6/18/2004	Cell 17W	0	0	150
6/21/2004	Cell 17W	220	0	100
6/22/2004	Cell 17W	70	0	80
6/23/2004	Cell 17W &16E	80	0	100
6/29/2004	Cell 17W	0	0	80
	Monthly total from bank soil and sediment	2,350	430	1,860

Note:

All quantities are in compacted or "in-place" cubic yards. All loads are estimated at 10cy per truck.

**Table 2 - Quantity of Bank and Sediment Material Excavated to Date
June 2004 Monthly Report**

**GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action
Pittsfield, MA**

(Results are reported in cubic yards)

		Approximate Quantity of Bank and Sediment Material Excavated to Date			
Date	Location	non-TSCA	TSCA	NAPL impacted	Total
09/26/02 to 10/02/02	Cell 1A	101	0	53	154
10/02/02 to 10/04/02	Cell 1B	60	0	110	170
10/18/02 to 10/29/02	Cell 2	874	175	0	1,049
11/11/02 to 11/15/02	Cell 3	183	0	200	383
11/18/02 to 11/25/02	Cell 4	2,283	198	0	2,481
12/03/02 to 12/10/02	Cell 5	1,629	369	0	1,998
01/07/03 to 01/15/03	Cell 6	832	658	0	1,490
01/10/03 to 01/29/03	Cell 6A	2,611	68	0	2,679
02/03/03 to 02/10/03	Cell 7&7A	1,114	636	0	1,750
02/20/03 to 02/24/03	Cell 5A	899	0	0	899
02/25/03 to 03/07/03	Cell 8&8A	1,245	90	0	1,335
03/14/03 to 03/18/03	Cell 9	603	307	0	910
03/27/03 to 04/07/03	Cell 10&10A	1,730	133	0	1,863
04/14/03 to 04/16/03	Cell 12	668	1,354	0	2,022
04/30/03 to 05/09/03	Cell 11	1,713	341	10	2,064
05/27/03 to 06/12/03	Cell 11A	957	166	462	1,585
06/25/03 to 07/18/03	Cell 12A	1,656	805	656	3,117
09/04/03 to 10/22/03	Cell 13	3,580	298	1,129	5,007
01/08/04 to 03/24/04	Cell 14&15	4,462	288	257	5,007
5/25/04 to 06/18/04	Cell 16E,16W&17W*	2,650	590	1,860	5,100
	Total	29,850	6,476	4,737	41,063

Note:

All quantities determined by pre- and post- excavation surveying.

* Cell 16E,16W&17W Quantities estimated based on truck counts at 10cy/truck

**Table 3 - Quantity of Material Transferred to OPCAs During the Month of June
June 2004 Monthly Report**

**GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action
Pittsfield, MA**

(Results are reported in cubic yards)

		Approximate Quantity Transported to OPCAs	
Date	# of truckloads	Hill 78 (non-TSCA)	Bldg. 71 (TSCA)
Bank Soil and Sediment			
6/3/2004	13	0	143
6/22/2004	35	0	385
Monthly totals	48	0	528

Note:

All quantities are in compacted or "in-place" cubic yards.

(1) Estimated at 11 cy per truck

**Table 4 - Quantity of Material Transferred to OPCAs to Date
June 2004 Monthly Report**

**GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action
Pittsfield, MA**

(Results are reported in cubic yards)

		Approximate Quantity Transported to OPCAs	
Date	Location	Hill 78 (non-TSCA)	Bldg. 71 (TSCA)
Site Preparation Activities			
09/11/02	Building 65 Stockpile Management Area	225	
Bank Soil and Sediment			
12/05/02 to 12/19/02	Stockpile Management Area/Excavation Cells	4,718 (1)	910 (1)
02/11/03 to 02/28/03	Stockpile Management Area/Excavation Cells	5,137 (2)	539 (2)
03/03/03 to 03/14/03	Stockpile Management Area/Excavation Cells	1,749 (2)	1,353 (2)
04/07/03 to 04/18/03	Stockpile Management Area/Excavation Cells	2,710 (3)	1,698 (3)
04/07/03 to 04/18/03	Stockpile Management Area/Cleanup Material	370 (3)	40 (3)
05/12/03 to 05/14/03	Stockpile Management Area/Excavation Cells	1,826 (3)	0
05/12/03 to 05/14/03	Stockpile Management Area/Cleanup Material	220 (3)	0
06/11/03 to 06/12/03	Stockpile Management Area/Excavation Cells	0	704 (3)
06/16/03 to 06/17/03	Stockpile Management Area/Excavation Cells	712 (3)	0
06/16/03 to 06/17/03	Stockpile Management Area/Cleanup Material	146 (3)	0
07/07/03 to 07/11/03	Stockpile Management Area/Excavation Cells	1,188 (3)	748 (3)
09/15/03 to 09/30/03	Stockpile Management Area/Excavation Cells	2,090 (3)	308 (3)
10/28/03 to 10/30/03	Stockpile Management Area/Excavation Cells	1,623 (3)	33 (3)
10/28/03 to 10/30/03	Stockpile Management Area/Cleanup Material	181 (3)	0
11/18/03	Demolition Debris from Parcels I8-10-2 and I8-10-3	200 (4)	0
1/12/04	Stockpile Management Area/Excavation Cells	77 (3)	0
04/28/04 to 4/30/04	Stockpile Management Area	0	825 (3)
05/12/04 to 05/27/04	Stockpile Management Area/Excavation Cells/Outfall Repair on Parcel I8-23-6	1,518 (3)	484 (3)
6/3/04	Stockpile Management Area	0	528 (3)
Project Totals		24,690	8,170

Note:

All quantities are in compacted or "in-place" cubic yards.

- (1) Estimated at 14cy per truck, loaded with excavator.
- (2) Estimated at 11cy per truck due to loading out frozen material.
- (3) Estimated at 11cy per truck, loaded with front end loader.
- (4) Estimated at 8cy per truck

**Table 5 - Quantity of non-TSCA Material Transported to Waste Management of New
Hampshire-TREE, Rochester, N.H.
During the Month of June
June 2004 Monthly Report**

**GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action
Pittsfield, MA**

(Results are reported in tons)

Date Shipped	Doc. Number	Net Weight (Tons) (1)
06/21/04	0143WMNH	28.70
06/21/04	0144WMNH	29.97
06/21/04	0145WMNH	27.21
06/21/04	0146WMNH	27.69
06/21/04	0147WMNH	30.79
06/21/04	0148WMNH	29.21
06/21/04	0149WMNH	30.47
06/21/04	0150WMNH	32.17
06/21/04	0151WMNH	29.49
06/21/04	0152WMNH	33.28
06/21/04	0153WMNH	30.76
06/21/04	0154WMNH	31.57
6/22/2004	0155WMNH	31.30
6/22/2004	0156WMNH	28.33
6/22/2004	0157WMNH	30.77
6/22/2004	0158WMNH	30.10
6/22/2004	0159WMNH	31.09
6/22/2004	0160WMNH	29.80
6/22/2004	0161WMNH	32.75
6/22/2004	0162WMNH	32.40
6/22/2004	0163WMNH	30.81
6/22/2004	0164WMNH	29.69
6/23/2004	0165WMNH	32.80
6/23/2004	0166WMNH	31.29
6/23/2004	0167WMNH	30.77
6/23/2004	0168WMNH	28.20
6/23/2004	0169WMNH	28.86
6/23/2004	0170WMNH	31.66
6/23/2004	0171WMNH	31.23
6/23/2004	0172WMNH	30.43
6/23/2004	0173WMNH	30.07
6/23/2004	0174WMNH	31.01
6/24/2004	0175WMNH	30.09
6/24/2004	0176WMNH	30.23

Date Shipped	Doc. Number	Net Weight (Tons) (1)
6/24/2004	0177WMNH	30.00
6/24/2004	0178WMNH	28.91
6/24/2004	0179WMNH	31.65
6/24/2004	0180WMNH	29.09
6/25/2004	0181WMNH	30.21
6/25/2004	0182WMNH	30.71
6/25/2004	0183WMNH	29.40
6/25/2004	0184WMNH	29.81
6/25/2004	0185WMNH	30.08
6/25/2004	0186WMNH	31.85
6/25/2004	0187WMNH	30.22
6/25/2004	0188WMNH	30.96
6/25/2004	0189WMNH	30.72
6/25/2004	0190WMNH	32.90
6/28/2004	0191WMNH	30.18
6/28/2004	0192WMNH	29.22
6/28/2004	0193WMNH	29.40
6/28/2004	0194WMNH	30.20
6/28/2004	0195WMNH	30.81
6/28/2004	0196WMNH	30.01
6/28/2004	0197WMNH	32.58
6/28/2004	0198WMNH	30.70
6/28/2004	0199WMNH	30.54
6/28/2004	0200WMNH	26.98
6/29/2004	0201WMNH	31.85
6/29/2004	0202WMNH	29.46
6/29/2004	0203WMNH	28.49
6/29/2004	0204WMNH	31.74
6/29/2004	0205WMNH	30.79
6/29/2004	0206WMNH	28.45
6/29/2004	0207WMNH	30.59
6/29/2004	0208WMNH	30.26
6/29/2004	0209WMNH	31.05
6/29/2004	0210WMNH	28.88
06/30/04	0211WMNH	29.76
06/30/04	0212WMNH	30.37
06/30/04	0213WMNH	29.32
06/30/04	0214WMNH	30.96
06/30/04	0215WMNH	32.20
06/30/04	0216WMNH	29.20
Total of Material Disposed		2,245.49

Notes:

(1) Net weights established at the disposal facility

**Table 6 - Quantity of Water Treatment System Modutank Material Transported to CWM Chemical
Services, Model City, N.Y.
During the Month of June
June 2004 Monthly Report**

**GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action
Pittsfield, MA**

(Results are reported in tons)

Date Shipped	Manifest Doc. Number	Manifest	Net Weight (Tons) (1)
06/03/04	00026	NYG0646749	29.50
06/03/04	00027	NYG0656619	29.26
06/03/04	00028	NYG0646623	29.74
06/03/04	00029	NYG0646758	31.49
06/07/04	00030	NY60646632	30.78
06/07/04	00031	NY60646641	31.05
06/07/04	00032	NY60646659	30.97
06/07/04	00033	NY60646668	31.10
06/08/04	00034	NY60646677	30.89
Total of Material Disposed			274.78

Notes:

(1) Net weights established at the disposal facility

**Table 7- NPDES Sampling Results for Water Treatment System
June 2004 Monthly Report**

**GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action
Pittsfield, MA**

(Results are presented in part per billion, ppb)

Sample ID	Location	Date Collected	Aroclor 1016, 1221, 1232, & 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs
H2-WW000001-0-4U10	Influent	10-Jun-04	ND(0.014)	ND(0.014)	0.35 J	0.85	1.2
H2-WW000002-0-4U10	Intermediate	10-Jun-04	ND(0.026)	ND(0.026)	0.19	0.22	0.41
H2-WW000003-0-4U10	Effluent	10-Jun-04	ND(0.025)	ND(0.025)	0.11	0.15	0.26
Action Level	Effluent		0.50	0.50	0.50	0.50	0.50

Notes:

ND(0.013) - Analyte was not detected. The value in parentheses is the associated detection limit.

Intermediate - sample collected between carbon units which are being operated in series.

6/10/04 - monthly sampling

**Table 7a - NPDES non-PCB Sampling Results for Water Treatment System
June 2004 Monthly Report**

**GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action
Pittsfield, MA**

(Results are presented in part per billion, ppb)

Sample ID	H2-WW000001-0-4U10	H2-WW000002-0-4U10	H2-WW000003-0-4U10	NPDES Permit Regulatory Effluent Limits
Sample type	Influent	Intermediate	Effluent	
Date Collected	06/10/2004	06/10/2004	06/10/2004	
Analyte				
APP IX SEMIVOLATILES				
2,4-DIMETHYLPHENOL	1.4 J	ND	ND	N/A
4-METHYLPHENOL	0.67 J	ND	ND	N/A
ACENAPHTHENE	34.0	ND	ND	100
ACENAPHTHYLENE	5.5 J	ND	ND	100
ANTHRACENE	15.0	ND	ND	100
BENZO(A)ANTHRACENE	3.2 J	ND	ND	100
BENZO(A)PYRENE	1.7 J	ND	ND	100
BENZO(B)FLUORANTHENE	1.2 J	ND	ND	100
BENZO(GHI)PERYLENE	0.55 J	ND	ND	100
BENZO(K)FLUORANTHENE	1.6 J	ND	ND	100
BIS(2-ETHYLHEXYL) PHTHALATE	0.88 J	ND	ND	100
CHRYSENE	2.6 J	ND	ND	100
DIBENZOFURAN	30.0	ND	ND	100
FLUORANTHENE	17.0	0.52 J	ND	100
FLUORENE	46.0	ND	ND	100
INDENO(1,2,3-C,D)PYRENE	0.59 J	ND	ND	100
PHENANTHRENE	38.0	ND	ND	100
PHENOL	0.84 J	ND	ND	N/A
PYRENE	11.0	ND	ND	100
APP IX VOLATILES				
2-BUTANONE	2.2 J	ND	ND	N/A
ACETONE	10.0	ND	ND	100
BENZENE	0.32 J	ND	ND	5*
CARBON TETRACHLORIDE	ND	0.34 J	ND	N/A
CHLOROFORM	ND	0.72 J	0.42 J	100
CIS-1,2-DICHLOROETHENE	ND	0.42 J	ND	N/A
ETHYL BENZENE	5.5	ND	ND	N/A
M,P-XYLENE (SUM OF ISOMERS)	9.1	ND	ND	*
NAPHTHALENE	48.0	0.78 J	ND	100
O-XYLENE	4.7	ND	ND	*
TERT-BUTYL METHYL ETHER	0.26 J	7.7	12.0	70
TOLUENE	2.4	ND	ND	*
XYLENES (TOTAL)	14.0	ND	ND	*
METALS				
BARIUM	38.2	28.3	29.0	100
CHROMIUM	4.3	0.68	1.0	100
COBALT	2.1	ND	ND	100
COPPER	24.2	3.7	1.7	100
LEAD	49.1	9.0	3.8	50
NICKEL	1.6	8.0	ND	100
SELENIUM	ND	ND	3.6	N/A
VANADIUM	3.7	ND	ND	100
ZINC	46.1	141	108	500

Notes:

Intermediate - sample collected between carbon units which are being operated in series.

Only detected constituents are summarized

ND - not detected

J - Indicates an estimated value

* Total BTEX (Benzene, Toluene, Ethyl Benzene and Xylene) can not exceed 100 ppb

N/A - not available

**Table 8 - Daily Air Monitoring Results
June 2004 Monthly Report**

**GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action
Pittsfield, MA**

Date Collected	Sample Location	Average Site Concentration (mg/m³)	Average Period (Hours:Min)
6/1/2004	Upwind	N/A	N/A
	Downwind	N/A	N/A
	Background	N/A	N/A
6/2/2004	Upwind	N/A	N/A
	Downwind	N/A	N/A
	Background	N/A	N/A
6/3/2004	Upwind	N/A	N/A
	Downwind	N/A	N/A
	Background	N/A	N/A
6/4/2004	Upwind	N/A	N/A
	Downwind	N/A	N/A
	Background	N/A	N/A
6/7/2004	Upwind	0.096	22
	Downwind	--	--
	Background	0.240	22
6/8/2004	Upwind	N/A	N/A
	Downwind	N/A	N/A
	Background	N/A	N/A
6/9/2004	Upwind	--	--
	Downwind	--	--
	Background	0.011	24
6/10/2004	Upwind	N/A	N/A
	Downwind	N/A	N/A
	Background	N/A	N/A
6/11/2004	Upwind	--	--
	Downwind	0.000	8
	Background	--	--
6/14/2004	Upwind	N/A	N/A
	Downwind	N/A	N/A
	Background	N/A	N/A
6/15/2004	Upwind	0.000	7
	Downwind	0.058	7
	Background	--	--
6/16/2004	Upwind	N/A	N/A
	Downwind	N/A	N/A
	Background	N/A	N/A
6/17/2004	Upwind	N/A	N/A
	Downwind	N/A	N/A
	Background	N/A	N/A

Date Collected	Sample Location	Average Site Concentration (mg/m ³)	Average Period (Hours:Min)
6/18/2004	Upwind	0.040	6
	Downwind	0.081	6
	Background	--	--
6/21/2004	Upwind	0.008	8
	Downwind	0.052	8
	Background	--	--
6/22/2004	Upwind	N/A	N/A
	Downwind	N/A	N/A
	Background	N/A	N/A
6/23/2004	Upwind	0.000	9
	Downwind	0.049	9
	Background	--	--
6/24/2004	Upwind	0.011	7
	Downwind	0.070	7
	Background	--	--
6/25/2004	Upwind	N/A	N/A
	Downwind	N/A	N/A
	Background	N/A	N/A
6/28/2004	Upwind	0.003	29
	Downwind	0.057	14
	Background	--	--
6/29/2004	Upwind	N/A	N/A
	Downwind	N/A	N/A
	Background	N/A	N/A
6/30/2004	Upwind	0.012	8
	Downwind	0.046	8
	Background	--	--
notification level		0.120	
action level		0.150	

Notes:

N/A - Not available due to precipitation

--- - No reading due to technical difficulties with monitoring equipment

**Table 9 - Daily Water Column Turbidity Monitoring Results
June 2004 Monthly Report**

**GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action
Pittsfield, MA**

Date	Flow at Coltsville (cfs)	Location	Turbidity			Temperature Average (°C)
			Average	High	Low	
6/1/2004	114	Downstream of Lyman Street Bridge	1.5	1.6	1.4	13.7
		Downstream of Pomeroy Avenue Bridge	-4.0	-1.7	-5.1	13.82
6/2/2004	224	Downstream of Lyman Street Bridge	1.4	1.6	1.3	13.0
		Downstream of Pomeroy Avenue Bridge	2.6	15.7	-2.5	13.31
6/3/2004	218	Downstream of Lyman Street Bridge	1.6	1.8	1.5	15.2
		Downstream of Pomeroy Avenue Bridge	N/A	N/A	N/A	N/A
6/4/2004	157	Downstream of Lyman Street Bridge	1.3	1.5	1.2	15.1
		Downstream of Pomeroy Avenue Bridge	N/A	N/A	N/A	N/A
6/5/2004	120	Downstream of Lyman Street Bridge	1.4	1.7	1.2	15.75
		Downstream of Pomeroy Avenue Bridge	N/A	N/A	N/A	N/A
6/6/2004	99	Downstream of Lyman Street Bridge	1.3	1.4	1.2	14.58
		Downstream of Pomeroy Avenue Bridge	N/A	N/A	N/A	N/A
6/7/2004	94	Downstream of Lyman Street Bridge	1.2	1.5	1.1	14.28
		Downstream of Pomeroy Avenue Bridge	N/A	N/A	N/A	N/A
6/8/2004	66	Downstream of Lyman Street Bridge	1.3	1.4	1.1	16.91
		Downstream of Pomeroy Avenue Bridge	N/A	N/A	N/A	N/A
6/9/2004	52	Downstream of Lyman Street Bridge	1.4	2.3	1.2	19.29
		Downstream of Pomeroy Avenue Bridge	N/A	N/A	N/A	N/A
6/10/2004	80	Downstream of Lyman Street Bridge	1.4	2.3	1.2	19.91
		Downstream of Pomeroy Avenue Bridge	N/A	N/A	N/A	N/A
6/11/2004	75	Downstream of Lyman Street Bridge	1.7	2.5	1.4	17.20
		Downstream of Pomeroy Avenue Bridge	N/A	N/A	N/A	N/A
6/12/2004	55	Downstream of Lyman Street Bridge	2.9	3.7	2.5	16.45
		Downstream of Pomeroy Avenue Bridge	N/A	N/A	N/A	N/A
6/13/2004	46	Downstream of Lyman Street Bridge	3.6	4.0	3.3	16.41
		Downstream of Pomeroy Avenue Bridge	N/A	N/A	N/A	N/A
6/14/2004	42	Downstream of Lyman Street Bridge	2.8	3.6	1.1	16.83
		Downstream of Pomeroy Avenue Bridge	12.4	77.1	0.6	17.33
6/15/2004	41	Downstream of Lyman Street Bridge	3.2	3.3	3.0	18.58
		Downstream of Pomeroy Avenue Bridge	1.4	5.2	0.6	19.10
6/16/2004	37	Downstream of Lyman Street Bridge	2.9	3.1	2.8	19.81
		Downstream of Pomeroy Avenue Bridge	1.2	2.0	0.5	20.19
6/17/2004	36	Downstream of Lyman Street Bridge	2.8	2.9	2.7	20.20
		Downstream of Pomeroy Avenue Bridge	0.9	2.0	0.2	20.33
6/18/2004	34	Downstream of Lyman Street Bridge	2.7	2.8	2.6	19.78
		Downstream of Pomeroy Avenue Bridge	3.2	6.3	1.5	19.96
6/19/2004	45	Downstream of Lyman Street Bridge	1.0	1.5	0.7	19.94
		Downstream of Pomeroy Avenue Bridge	1.5	11.2	0.1	20.26

Date	Flow at Coltsville (cfs)	Location	Turbidity			Temperature Average (°C)
			Average	High	Low	
6/20/2004	36	Downstream of Lyman Street Bridge	2.2	2.4	1.5	17.38
		Downstream of Pomeroy Avenue Bridge	0.4	1.0	-0.1	17.66
6/21/2004	33	Downstream of Lyman Street Bridge	2.3	2.5	1.5	15.82
		Downstream of Pomeroy Avenue Bridge	0.1	0.8	-0.2	17.09
6/22/2004	31	Downstream of Lyman Street Bridge	N/A	N/A	N/A	N/A
		Downstream of Pomeroy Avenue Bridge	0.0	0.5	-0.5	17.20
6/23/2004	36	Downstream of Lyman Street Bridge	N/A	N/A	N/A	N/A
		Downstream of Pomeroy Avenue Bridge	0.8	2.0	-0.4	18.37
6/24/2004	28	Downstream of Lyman Street Bridge	N/A	N/A	N/A	N/A
		Downstream of Pomeroy Avenue Bridge	-0.3	0.3	-0.7	19.0
6/25/2004	28	Downstream of Lyman Street Bridge	102.6	316.5	43.8	19.44
		Downstream of Pomeroy Avenue Bridge	1.0	4.5	0.1	19.7
6/26/2004	36	Downstream of Lyman Street Bridge	31.6	118.3	14.9	18.27
		Downstream of Pomeroy Avenue Bridge	3.2	5.5	1.6	18.5
6/27/2004	32	Downstream of Lyman Street Bridge	98.5	918.6	26.0	17.13
		Downstream of Pomeroy Avenue Bridge	11.8	28.3	0.6	17.4
6/28/2004	29	Downstream of Lyman Street Bridge	37.3	72.5	29.1	17.07
		Downstream of Pomeroy Avenue Bridge	1.3	3.8	0.5	17.4
6/29/2004	38	Downstream of Lyman Street Bridge	41.7	79.5	16.4	17.33
		Downstream of Pomeroy Avenue Bridge	2.5	6.3	0.8	17.73
6/30/2004	31	Downstream of Lyman Street Bridge	21.3	91.5	2.4	19.50
		Downstream of Pomeroy Avenue Bridge	8.3	26.7	0.5	19.20

Notes:

Turbidity Action Level - Average Downstream (Pomeroy Avenue) \geq Average Downstream (Lyman Street) + 50 ntu

cfs - Cubic feet per second

ntu - nephelometric turbidity units

Measurements collected using YSI 6200 Data Acquisition System using 600 OMS

sonde with a 6136 Turbidity Probe

Flow data was obtained from the USGS Station 01197000 in Coltsville, MA at approximately midday.

Negative values are attributed to +/- 2ntu accuracy of the turbidity probe

N/A - Pomeroy Ave Probe was pulled from 6/3/04 - 6/13/04 for repair. The probe was replaced with a new unit.

N/A - Lyman Street Probe was pulled from 6/22 until 6/24 for calibration and maintenance. The stilling well was cleaned out on 6/30 due to suspected siltation.

**Table 10 - Summary of Turbidity, PCB, and TSS Water Column Monitoring Results
June 2004 Monthly Report**

**GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action
Pittsfield, MA**

Location	Date	Estimated Flow (cfs)	Turbidity (ntu)			Water Temp. (°C)	Calculated Flow Beginning (cfs)	Calculated Flow End (cfs)	Sample ID	Total PCB Concentration (ug/l)	Filtered PCB Concentration (ug/l)	TSS (mg/l)
			High	Low	Daily Average							
Upstream of Newell St. Bridge	05/20/04	63	NS	NS	NS	NS	NS	NS	H0-SW000054-0-4Y20	ND(0.013)	ND(0.013)	3.1
Downstream of Lyman St. Bridge	05/20/04	63	6.8	3.5	5.0	71.02	NS	NS	H2-SW000055-0-4Y20	ND(0.013)	ND(0.013)	3.7
Downstream of Pomeroy Ave. Bridge	05/20/04	63	298.6	-1.5	46.1	16.88	78.4	55.2	H2-SW000052-0-4Y20	0.019	ND(0.013)	2.7
Upstream of Newell St. Bridge	06/03/04	218	NS	NS	NS	NS	NS	NS	H0-SW000054-0-4U03	NS	NS	NS
Downstream of Lyman St. Bridge	06/03/04	218	1.8	1.5	1.6	15.2	NS	NS	H2-SW000055-0-4U03	ND(0.013)	ND(0.013)	4.7
Downstream of Pomeroy Ave. Bridge	06/03/04	218	N/A	N/A	N/A	N/A	273	295	H2-SW000052-0-4U03	0.84	0.056	27.7
Downstream of Pomeroy Ave. Bridge (duplicate)	06/03/04	218	N/A	N/A	N/A	N/A	273	295	H2-SW000052-1-4U03	NS	0.079	NS
Upstream of Newell St. Bridge	06/16/04	37	NS	NS	NS	NS	NS	NS	H0-SW000054-0-4U16	ND(0.013)	ND(0.013)	7.3
Downstream of Lyman St. Bridge	06/16/04	37	3.1	2.8	2.9	19.81	NS	NS	H2-SW000055-0-4U16	0.014	ND(0.013)	3.5
Downstream of Pomeroy Ave. Bridge	06/16/04	37	2.0	0.5	1.2	20.19	53.4	54.0	H2-SW000052-0-4U16	0.033	ND(0.013)	3.4

Notes:
PCB Action Level - Downstream (Pomeroy Avenue) \geq Downstream (Lyman Street) + 5 ug/L
 ND(0.013) - Analyte was not detected. The value in parentheses is the associated detection limit.
 cfs - Cubic feet per second
 ntu - nephelometric turbidity units
 NS - Not Sampled
 Temperature measured YSI 600 oms system.
 Flow data was obtained from the USGS Station 01197000 in Coltsville, MA at approximately midday.
 Water column samples were collected as 4 grab composite samples.
 Two flow values calculated, one at the beginning of the sampling event and one at the end of sampling event.
 N/A - Pomeroy Ave Probe was pulled from 6/3/04 - 6/13/04 for repair. The probe was replace with a new unit.

**Table 11 - PCB Air Sampling Results
June 2004 Monthly Report**

**GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action
Pittsfield, MA**

(Results are presented in $\mu\text{g}/\text{m}^3$)

Sample ID	Location (1)	Date Collected	Aroclor 1016, & 1242	Aroclor 1221, 1232, & 1248	Aroclor 1254	Aroclor 1260	Total PCBs
H2-AR000007-0-4U10	background	10-Jun-04	ND(0.00251)	ND(0.00251)	0.00427	ND(0.00251)	0.00427
H2-AR000028-0-4U10	AR000028	10-Jun-04	ND(0.00292)	ND(0.00292)	0.00701	ND(0.00292)	0.00701
H2-AR000032-0-4U10	AR000032	10-Jun-04	ND(0.00281)	ND(0.00281)	0.00450	ND(0.00281)	0.00450
H2-AR000035-0-4U10	AR000035	10-Jun-04	ND(0.00254)	ND(0.00254)	0.02494 *	ND(0.00254)	0.02494 *
H2-AR000036-0-4U10	AR000036	10-Jun-04	ND(0.00296)	ND(0.00296)	0.00739	ND(0.00296)	0.00739
H2-AR000036-1-4U10 (duplicate)	AR000036	10-Jun-04	0.00449 *	ND(0.00374)	0.00785 *	ND(0.00374)	0.01234 *

Notes:

Notification Level: $0.05\mu\text{g}/\text{m}^3$

Action Level: $0.1\mu\text{g}/\text{m}^3$

1- See Figure 1 for locations

* - Reported value may be biased due to apparent matrix interferences

Table 12 - Post Excavation Soil/ Sediment Characterization Analytical Results
June 2004 Monthly Report
GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action
Pittsfield, MA

(Results are presented in part per million, ppm)

Sample ID	H2-OT000134-0-4U03	H2-OT000138-0-4U16	H2-OT000139-0-4U17	H2-OT000140-0-4U17
Sample type	stockpile material characterization	stockpile material characterization	stockpile material characterization	stockpile material characterization
Date Collected	06/03/2004	06/16/2004	06/17/2004	06/17/2004
Stockpile Location	Area 64B south	Area 64B north	Area 64C north	Area 64C north
Analyte				
PCBS				
AROCLOR-1254	19.0	69.0	2.6	0.740
AROCLOR-1260	7.1	17.0	6.3	2.0
PCB, TOTAL	26.0	86.0	8.9	2.7
TCLP HERBICIDES				
	all Non-Detects	---	all Non-Detects	all Non-Detects
TCLP METALS				
BARIUM, TCLP LEACHATE (mg/l)	0.346	---	0.427	0.335
CADMIUM, TCLP LEACHATE (mg/l)	0.0027	---	0.0025	0.0013
LEAD, TCLP (mg/l)	0.0476	---	ND	ND
SELENIUM, TCLP LEACHATE (mg/l)	0.0108	---	ND	0.0084
TCLP PESTICIDES				
	all Non-Detects	---	all Non-Detects	all Non-Detects
TCLP SEMIVOLATILES				
	all Non-Detects	---	all Non-Detects	all Non-Detects
TCLP VOLATILES				
	all Non-Detects	---	all Non-Detects	all Non-Detects
INORGANICS				
CORROSIVITY BY PH	8.0	---	8.4	8.4
IGNITABILITY (deg f)	>150	---	>150	>150
PAINT FILTER LIQUIDS (ml)	ABSENT	---	ABSENT	ABSENT
PERCENT SOLIDS (%)	81.9	82.2	89.6	87
SULFIDE	ND(9.6)	---	ND(9.3)	9.5
CYANIDE	ND	---	ND	ND

Notes:

Only detected constituents are summarized

ND - not detected

--- not sampled

Table 13 - NAPL-Impacted Sediment from Cell 16W Analytical Results
June 2004 Monthly Report
GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action
Pittsfield, MA

(Results are presented in part per million, ppm)

Sample ID	H2-SE001546-0-4U08
Sample type	Cell 16W, NAPL-impacted sediment
Date Collected	06/08/2004
Analyte	
PCBS	
PCB, TOTAL	ND
APP IX SEMIVOLATILES	
2,4-DIMETHYLPHENOL	10 J
2-METHYLNAPHTHALENE	5800
2-METHYLPHENOL (O-CRESOL)	8.0 J
4-METHYLPHENOL	18 J
ACENAPHTHENE	2800
ACENAPHTHYLENE	2100 J
ANTHRACENE	5200
BENZO(A)ANTHRACENE	2600
BENZO(A)PYRENE	1800 J
BENZO(B)FLUORANTHENE	1300 J
BENZO(GHI)PERYLENE	540 J
BENZO(K)FLUORANTHENE	1700 J
CHRYSENE	2300 J
DIBENZO(A,H)ANTHRACENE	310 J
DIBENZOFURAN	3200
FLUORANTHENE	6100
FLUORENE	4100
INDENO(1,2,3-C,D)PYRENE	620 J
NAPHTHALENE	16000
PHENANTHRENE	11000
PHENOL	9.6 J
PYRENE	4500
APP IX VOLATILES	
ACETONE	1.3 J
BENZENE	18
CARBON DISULFIDE	0.4 J
ETHYL BENZENE	130 J
M,P-XYLENE (SUM OF ISOMERS)	340
METHYLACRYLONITRILE	3600
NAPHTHALENE	7100
O-XYLENE	130 J
STYRENE	38
TOLUENE	130 J
XYLENES (TOTAL)	480

Notes:

Only detected constituents are summarized

J - Indicates as estimated value

ND - not detected

Table 14 - Cell 16/17 NAPL-Impacted Material Characterization Analytical Results
June 2004 Monthly Report
GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action
Pittsfield, MA

(Results are presented in part per million, ppm)

Sample ID	H2-OT000135-0-4U15	H2-OT000136-0-4U15	H2-OT000137-0-4U15	H2-OT000152-0-4U24A
Sample type	stockpile material characterization	stockpile material characterization	stockpile material characterization	stockpile material characterization
Date Collected	06/15/2004	06/15/2004	06/15/2004	06/24/2004
Stockpile Location	Building 68	Building 68	Building 68	Building 68
Analyte				
PCBS				
PCB, TOTAL	3.7	4.3	3.4	---
AROCLOR-1254	0.99 J	1.2 J	0.94 J	---
AROCLOR-1260	2.7	3.1	2.5	---
APP IX SEMIVOLATILES				
2-METHYLNAPHTHALENE	160	280	350	---
2-METHYLPHENOL (O-CRESOL)	0.44 J	ND	1.2 J	---
4-METHYLPHENOL	1.5 J	3 J	3.4 J	---
ACENAPHTHENE	100	110 J	160	---
ACENAPHTHYLENE	82	140	170	---
ANTHRACENE	220	290	360	---
BENZO(A)ANTHRACENE	140	180	220	---
BENZO(A)PYRENE	99	120 J	160	---
BENZO(B)FLUORANTHENE	74	88 J	110 J	---
BENZO(GHI)PERYLENE	24 J	41 J	49 J	---
BENZO(K)FLUORANTHENE	84	120 J	150	---
CHRYSENE	120	150	180	---
DIBENZO(A,H)ANTHRACENE	16 J	24 J	27 J	---
DIBENZOFURAN	140	180	240	---
FLUORANTHENE	310	400	500	---
FLUORENE	180	250	300	---
INDENO(1,2,3-C,D)PYRENE	35 J	44 J	60 J	---
NAPHTHALENE	220	530	700	---
PHENANTHRENE	520	700	850	---
PHENOL	0.84 J	1.6 J	1.9 J	---
PYRENE	230	300	340	---
APP IX VOLATILES				
ETHYL BENZENE	ND	ND	4.9 J	---
M,P-XYLENE (SUM OF ISOMERS)	4.3 J	6.6 J	13 J	---
NAPHTHALENE	370	320	490	---
O-XYLENE	ND	ND	5.4 J	---
TOLUENE	ND	ND	2.6 J	---
XYLENES (TOTAL)	4.5 J	6.8 J	19	---
TCLP HERBICIDES				
	all Non-Detects	all Non-Detects	all Non-Detects	---
TCLP METALS				
BARIUM, TCLP LEACHATE (mg/l)	0.245	0.274	0.332	---
CADMIUM, TCLP LEACHATE (mg/l)	0.00093	0.00056	0.00071	---
CHROMIUM, TCLP LEACHATE (mg/l)	0.0012	0.0015	0.0013	---
LEAD, TCLP (mg/l)	0.0108	0.0056	0.0049	---
SELENIUM, TCLP LEACHATE (mg/l)	0.0086	0.009	0.0067	---
TCLP PESTICIDES				
	all Non-Detects	all Non-Detects	all Non-Detects	---
TCLP SEMIVOLATILES				
	all Non-Detects	all Non-Detects	all Non-Detects	---
TCLP VOLATILES				
BENZENE, TCLP (mg/l)	ND	.0051 J	ND	---
INORGANICS				
CORROSIVITY BY PH	7.9	7.9	7.7	---
IGNITABILITY (deg f)	>150	110	>150	>150
PAINT FILTER LIQUIDS	ABSENT	ABSENT	ABSENT	---

Sample ID	H2-OT000135-0-4U15	H2-OT000136-0-4U15	H2-OT000137-0-4U15	H2-OT000152-0-4U24A
Sample type	stockpile material characterization	stockpile material characterization	stockpile material characterization	stockpile material characterization
Date Collected	06/15/2004	06/15/2004	06/15/2004	06/24/2004
Stockpile Location	Building 68	Building 68	Building 68	Building 68
Analyte				
PERCENT SOLIDS (%)	85.8	80.7	83.1	85.2
SULFIDE	ND(9.5)	ND(9.6)	ND(9.7)	---
CYANIDE	0.71	1.1	ND(0.61)	---

Notes:

Only detected constituents are summarized

ND - not detected

--- - not sampled

Table 14 - Cell 16/17 NAPL-Impacted Material Characterization Analytical Results
June 2004 Monthly Report
GE-Pittsfield/Housatonic River Project 1.5 Mile Removal Action
Pittsfield, MA

(Results are presented in part per million, ppm)

Sample ID	H2-OT000152-0-4U24B	H2-OT000152-0-4U24C	H2-OT000152-0-4U24D	H2-OT000152-0-4U24E
Sample type	stockpile material characterization	stockpile material characterization	stockpile material characterization	stockpile material characterization
Date Collected	06/24/2004	06/24/2004	06/24/2004	06/24/2004
Stockpile Location	Building 68	Building 68	Building 68	Building 68
Analyte				
PCBS				
PCB, TOTAL	---	---	---	---
AROCLOR-1254	---	---	---	---
AROCLOR-1260	---	---	---	---
APP IX SEMIVOLATILES				
2-METHYLNAPHTHALENE	---	---	---	---
2-METHYLPHENOL (O-CRESOL)	---	---	---	---
4-METHYLPHENOL	---	---	---	---
ACENAPHTHENE	---	---	---	---
ACENAPHTHYLENE	---	---	---	---
ANTHRACENE	---	---	---	---
BENZO(A)ANTHRACENE	---	---	---	---
BENZO(A)PYRENE	---	---	---	---
BENZO(B)FLUORANTHENE	---	---	---	---
BENZO(GH)PERYLENE	---	---	---	---
BENZO(K)FLUORANTHENE	---	---	---	---
CHRYSENE	---	---	---	---
DIBENZO(A,H)ANTHRACENE	---	---	---	---
DIBENZOFURAN	---	---	---	---
FLUORANTHENE	---	---	---	---
FLUORENE	---	---	---	---
INDENO(1,2,3-C,D)PYRENE	---	---	---	---
NAPHTHALENE	---	---	---	---
PHENANTHRENE	---	---	---	---
PHENOL	---	---	---	---
PYRENE	---	---	---	---
APP IX VOLATILES				
ETHYL BENZENE	---	---	---	---
M,P-XYLENE (SUM OF ISOMERS)	---	---	---	---
NAPHTHALENE	---	---	---	---
O-XYLENE	---	---	---	---
TOLUENE	---	---	---	---
XYLENES (TOTAL)	---	---	---	---
TCLP HERBICIDES				
	---	---	---	---
TCLP METALS				
BARIUM, TCLP LEACHATE (mg/l)	---	---	---	---
CADMIUM, TCLP LEACHATE (mg/l)	---	---	---	---
CHROMIUM, TCLP LEACHATE (mg/l)	---	---	---	---
LEAD, TCLP (mg/l)	---	---	---	---
SELENIUM, TCLP LEACHATE (mg/l)	---	---	---	---
TCLP PESTICIDES				
	---	---	---	---
TCLP SEMIVOLATILES				
	---	---	---	---
TCLP VOLATILES				
BENZENE, TCLP (mg/l)	---	---	---	---
INORGANICS				
CORROSIVITY BY PH	---	---	---	---
IGNITABILITY (deg f)	>150	>150	>150	>150
PAINT FILTER LIQUIDS	---	---	---	---

Sample ID	H2-OT000152-0-4U24B	H2-OT000152-0-4U24C	H2-OT000152-0-4U24D	H2-OT000152-0-4U24E
Sample type	stockpile material characterization	stockpile material characterization	stockpile material characterization	stockpile material characterization
Date Collected	06/24/2004	06/24/2004	06/24/2004	06/24/2004
Stockpile Location	Building 68	Building 68	Building 68	Building 68
Analyte				
PERCENT SOLIDS (%)	88.2	80.4	86.3	82.4
SULFIDE	---	---	---	---
CYANIDE	---	---	---	---

Notes:

Only detected constituents are summarized

ND - not detected

--- - not sampled



Photograph 1 – Excavation Activities in Cell 17W



Photograph 2 – Excavation of NAPL Activities in Cell 17W



Photograph 3 – Removal of NAPL by Vacuum Truck



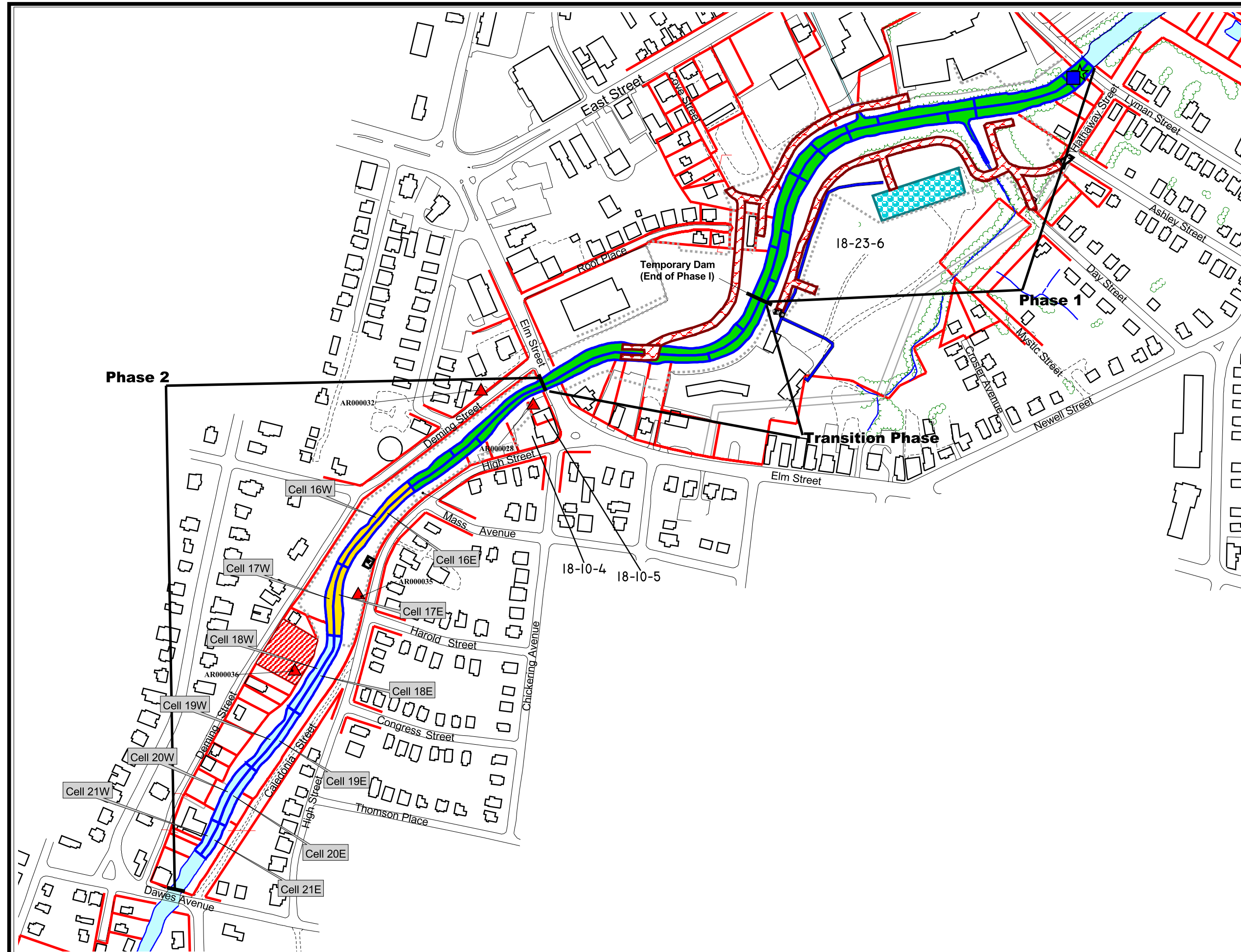
Photograph 4 – High Pressure Washing of NAPL-Stained Bedrock



Photograph 5 – Riverbank Backfilling Activities in Cell 16W



Photograph 6 – Installation of the NAPL Containment/Recovery System



LEGEND

- Roads
- Surface Water
- Water Treatment Plant*
- Access Roads
- Asphalt Access Road
- Property Lines
- Loadout Area
- Deming Street Staging/Loadout Area
- Fence line*
- Work Completed
- Work In Progress
- Work Pending
- Turbidity Monitoring Locations
- Air Sampling Locations
- Water Monitoring Locations
- Buried Electric/Telephone Line*

*Note: As-built features were located using a real time GPS unit



Scale in Feet



Figure 1
1.5 Mile Removal Action
Site Map
June 2004 Monthly Report